

STATE REVIEWS



Indian Minerals Yearbook 2012

(Part- I)

51st Edition

STATE REVIEWS
(Himachal Pradesh)

(FINAL RELEASE)

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HIMACHAL PRADESH

Mineral Resources

The State is the sole holder of country's rock salt resources. Barytes, limestone, salt (rock) and shale are the important minerals produced in the State. **Barytes** occurs in Sirmaur district; **limestone** in Bilaspur, Chamba, Kangra, Kullu, Mandi, Shimla, Sirmaur and Solan districts; and **rock salt** in Mandi district. Other minerals that occur in the State are **antimony** in Lahaul and Spiti districts; **gypsum** in Chamba, Sirmaur and Solan districts; **magnesite** in Chamba district; **pyrite** in Shimla district; and **quartz, quartzite and silica sand** in Una district (Table - 1).

Exploration & Development

ONGC continued its seismic survey and drilling for exploration of petroleum & natural gas and one exploratory well was drilled with meterage of 5.27 km during 2011-12. Details of exploration activities conducted by the GSI for Glass sand during 2011-12 are furnished in Table - 2.

Production

The value of mineral production in Himachal Pradesh during 2011-12 at ₹145 crore decreased by 17% as compared to that of the previous year.

Himachal Pradesh was the leading producer of shale accounting for 46% of the total production in the country and its production increased by 2% in 2011-12. Limestone is the principal mineral produced in the State which accounted for 80% in the total value of mineral production of the State in 2011-12. Its production decreased by 10% as compared to that in the previous year., while no production of salt (rock) was reported during 2011-12 by the sole producing State of the country (Table-3).

The production value of minor minerals was estimated at ₹ 25 crore for the year 2011-12.

The number of reporting mines in the State was 24 in both the years.

The index of mineral production in Himachal Pradesh (base 2004-05=100) was 149.63 in 2011-12 as compared to 165.67 in the previous year.

Table – 2 : Details of Exploration Activities in Himachal Pradesh, 2011-12

Agency/ State/ District	Location Area/ Block	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
GSI Glass sand Shimla & Kullu	Rampur	-	-	-	-	-	Reconnaissance stage investigation (G-4) was continued during FS 2010-12 in Rampur Group of rocks in Shimla and Kullu to search for quartzite and to assess its suitability for the glass industry and for other industrial purposes. On the basis of geological mapping and geological traverses, it was established that Sunda quartzite is occurring as discontinuous quartzite body within Banjar volcanic near Village Sunda having a strike length of 1km with a maximum true thickness of 120 m. This quartzite is pure white in colour with very minor impurities except at the contact with the Banjar volcanics where it is lavender and greenish in colour. Although quartzite is fine grained, hard, compact and forming the steep cliffs, at places presence of fuchsite was also noticed in minor amount. Silica in bed rock samples varies from 85.31% to 97.95%, Al ₂ O ₃ from 0.96% to 5.69%. and Fe ₂ O ₃ from 0.12% to 1.79%. Quartzite near Village Darshai is white in colour, fine grained having a dimension of 400 m strike length and maximum true thickness of 60 m. The work has been completed.

Table – 1: Reserves/Resources of Minerals as on 1.4.2010 : Himachal Pradesh

Mineral	Unit	Reserves				Remaining resources						Total resources (A+B)	
		Proved STD111	Probable		Total (A)	Feasibility STD211	Pre-feasibility		Indicated STD332	Inferred STD333	Reconnaissance STD334		Total (B)
			STD121	STD122			STD221	STD222					
Antimony													
Ore	tonne	-	-	-	-	-	-	-	10588	-	10588	10588	
Metal	tonne	-	-	-	-	-	-	-	174	-	174	174	
Barytes	tonne	27288	-	12645	39933	-	12846	-	48904	12370	3000	77120	
Gypsum	000 tonnes	-	-	-	-	-	-	1365	-	-	3081	4446	
Limestone	000 tonnes	541555	226170	209638	977363	48410	44097	21220	1525202	1891	2830449	4471702	
Magnesite	000 tonnes	-	-	-	-	-	-	-	-	-	298	298	
Pyrite	000 tonnes	-	-	-	-	-	-	-	-	-	2560	2560	
Quartzite	000 tonnes	25	-	16	41	16	-	-	-	-	-	16	
Quartz-silica sand	000 tonnes	1	-	7	8	99	-	-	-	-	2928	3027	
Rocksalt	000 tonnes	10036	-	5990	16026	-	-	-	-	-	-	-	

Figures rounded off.

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**Table – 3 : Mineral Production in Himachal Pradesh, 2009-10 to 2011-12
(Excluding Atomic Minerals)**

(Value in ₹ '000)

Mineral	Unit	2009-10			2010-11			2011-12 (P)		
		No. of mines	Qty	Value	No. of mines	Qty	Value	No. of mines	Qty	Value
All Minerals		26		1142505	24		1744796	24		1454063
Barytes	t	1	107	161	-	-	-	-	-	-
Limestone	'000t	24	8411	824371	23	11927	1437928	24	10766	1155493
Salt (rock)	t	1	1836	4908	1	1200	2971	-	-	-
Shale	t	-	924714	24700	-	1502873	55393	-	1535493	50066
Minor Minerals@	-	-	-	288365	-	-	248504	-	-	248504

Note: The number of mines excludes minor minerals.

@ Figures for earlier years have been repeated as estimates, wherever necessary, because of non-receipt of data.

Mineral-based Industry

The principal large and medium-scale mineral-based industries in the organised sector in the State are given in Table - 4.

Table – 4 : Principal Mineral-based Industries in Himachal Pradesh

Industry/plant	Capacity ('000 tpy)
Cement	
ACC Ltd, Gagaj, Dist. Bilaspur.	4355
CCI Ltd, Rajban, Dist. Sirmour	198
Grasim Industries, Sundernagar, Dist. Mandi.	2000
Gujarat Ambuja, Darlaghat, Dist. Solan.	1600
J. P. Industries Ltd, Bagga, Dist. Solan	2000
Baroh Sindh, Dist. Chamba.	2000
India Cement, Gumma, Dist. Shimla.	2000
Lafarge India, Alsindi, Dist. Mandi.	2000

(Contd.)

Table – 4 (Concl'd.)

Industry/plant	Capacity ('000 tpy)
Chemical	
Bhagwati Chemical Industries, Paonta Sahib, Dist. Sirmour.	8.7 (Hydrate lime)
Doon Shivalik Mineral Industries, Bhagani, Paonta Sahib, Dist. Sirmour.	5.5 (Hydrate lime)
Hind Chemical Industries, Badripur Paonta Sahib, Dist. Sirmour.	13.2 (Hydrate lime)
Lime Chemicals Ltd, Paonta Sahib, Dist. Sirmour.	35 (CaCO ₃)
M.I. Industries, Paonta Sahib, Dist. Sirmour.	15 (Hydrate lime)
Superior Carbonate & Chemicals Ltd, Satiwala, Paonta Sahib, Dist. Sirmour.	5 (CaCO ₃)
Vashisht Chemical Pvt Ltd, Kala Amb, Paonta Sahib, Dist. Sirmour.	6.3 (CaCO ₃)